

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-065497

(43)Date of publication of application : 07.03.1997

(51)Int.CI.

H04S 1/00  
H03G 5/02  
H03H 17/00  
H03H 17/02  
H03H 17/02

(21)Application number : 07-242428

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(22)Date of filing : 28.08.1995

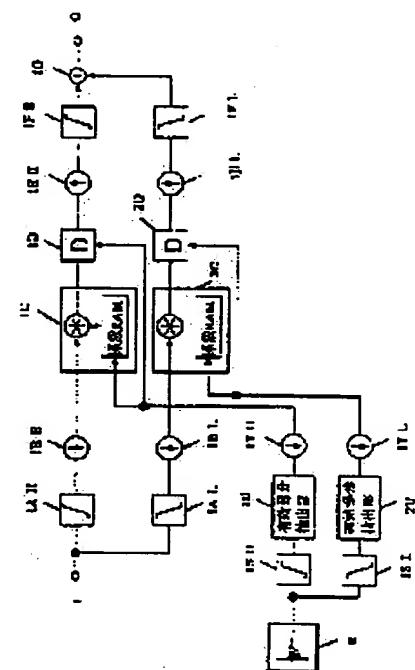
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## (54) SOUND IMAGE LOCALIZATION DEVICE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To eliminate feeling of unbalance of a sound image and to realize valid localization by using two filters for an acoustic signal in the sound image localization device so as to separate the signal into low and high frequencies and applying a filtering coefficient to the result so as to extract the valid part while the impulse response is separated into high and low frequencies.

**SOLUTION:** An input acoustic signal is fed separately into a low pass filter 1AL and a high pass filter 1AH symmetrically horizontally on a frequency axis. Down-samplers 1BL, 1BH connecting to them sample low and high frequency component signals. A head transfer function in a listening room is filtered by filters 1C, 2C separately for low and high frequency components and only the valid component is extracted. Delay elements 1D, 2D match time of the filter outputs and up-samplers 1EL, 1EH double the frequency of the delay element outputs. A low pass filter 1FL and a high pass filter 1FH eliminate noise from the low and high frequency signals. The acoustic signal is processed in this way.



### LEGAL STATUS

[Date of request for examination] 30.09.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]